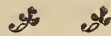




School of Practical Science

PROVINCE OF ONTARIO

(AFFILIATED TO THE UNIVERSITY OF TORONTO.)



CLASS LIST, 1899.

WARWICK BROS
& RUTTER S.



TORONTO

FACULTY OF THE SCHOOL.

J. GALBRAITH, M.A., M. CAN. SOC. C. E., PRINCIPAL.

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J. GALBRAITH, M.A., M. Can. Soc. C.E. *Professor of Engineering (Chairman)*
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and Assaying.*
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Chemistry.*
A. H. HARKNESS, B.A. Sc. *Fellow in Civil Engineering.*
R. W. ANGUS, B.A. Sc. *Fellow in Mechanical Engineering.*
A. T. LAING, B.A. Sc. *Acting Demonstrator in Surveying.*
T. A. WILKINSON, Grad. S.P.S. *Fellow in Electrical Engineering.*

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R. RAMSAY WRIGHT, M.A., B. Sc. *Professor of Biology.*
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ALFRED BAKER, M.A. *Professor of Mathematics.*
A. B. MACALLUM, B.A., M.B., Ph. D. . . . *Professor of Physiology.*
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W. L. MILLAR, B.A., Ph.D. *Demonstrator in Chemistry.*
F. J. SMALE, B.A., Ph. D. *Lecturer in Chemistry.*
H. J. DAWSON, B.A. *Fellow in Mathematics.*



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School of Practical Science

TORONTO

(Affiliated to the University of Toronto)

RESULTS OF ANNUAL EXAMINATIONS

SESSION 1898-9

DEPARTMENTS

CIVIL ENGINEERING (INCLUDING SANITARY ENGINEERING).
MINING ENGINEERING.
MECHANICAL AND ELECTRICAL ENGINEERING.
ARCHITECTURE.
ANALYTICAL AND APPLIED CHEMISTRY.

DEGREES

BACHELOR OF APPLIED SCIENCE (B.A. Sc.)
CIVIL ENGINEER (C.E.)
MINING ENGINEER (M.E.)
MECHANICAL ENGINEER (M.E.)
ELECTRICAL ENGINEER (E.E.)

Candidates are arranged alphabetically in the Departments and in the 4th or Post-Graduate year, in two classes, Honor and Pass.

DEPARTMENT OF CIVIL ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Barrett, R. H. Duff, W. A. Rust, H. P.	Phillips, E. H.	Shanks, T. Tennant, D. C.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Fuller, W. J. Harvey, C. MacLennan, A. L. McMillan, G. Sill, A. J. Twiss, A. T.	Clarke, F. F. Power, G. H. Tennant, W. C. Thorold, F. W. Weir, H. M.	Cooper, C. Latham, R. Patterson, J.

J. Patterson has passed the third year but, not having fulfilled the conditions respecting vacation work, his standing in the class is not given.

DEPARTMENT OF MINING ENGINEERING.

Honors.

FIRST YEAR,	SECOND YEAR.	THIRD YEAR.
Eason, D. E.	Boswell, M. C. Davison, J. E.	Revell, G. E.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Bolger, E. B. Forbes, D. L. H. Hamer, A. T. Henry, J. S. Jackson, F. C. Knight, R.	Ardagh, E. G. R. Dixon, H. A. Fullerton, C. H. Holcroft, H. S. Johnston, J. A. Matheson, W. C. Mackenzie, J. R. McArthur, R. E. McMichael, C. McMillan, J. G. Neelands, E. V., Roaf, J. R. Saunders, H. W. Thorne, S. M.	Burnside, T. Clothier, G. A. Coulthard, R. W. Elliot, J. C. Watt, G. H.

J. R. Mackenzie and W. C. Matheson have passed the second year, but, not having fulfilled the conditions respecting vacation work, their standings in the class are not given.

J. C. Elliot has passed the third year, but, not having fulfilled the conditions respecting vacation work, his standing in the class is not given.

DEPARTMENT OF MECHANICAL AND ELECTRICAL ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Chace, W. G. Cockburn, J. R. McVean, H. G.	Clark, J. Guest, W. S. Henderson, S. E. M. Miller, L. H.	Barber, T. Hare, W. A. Richards, E.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Batt, T. W. Beatty, F. R. Beatty, W. G. Benson, T. B. F. Bertram, G. M. Bowers, W. J. Brandon, E. T. Brereton, W. P. Broughton, J. T. Carmichael, C. G. Christie, A. G. Fotheringham, J. M. George, R. E. Gibson, N. R., Laidlaw, A. Mace, F. G. McCollum, G. C. McMaster, A. T. Mennie, R. S. Rigsby, J. P. Sauer, M. V. Stevenson, W. H. Sutherland, W. H. Zahn, H. G.	Barley, J. H. Dickinson, E. D. Dickson, G. W. Henry, J. A. Johnston, H. A. Johnston, J. C. Lumbers, W. C. Withrow, F. D.	Chubbuck, L. B. Craig, J. A. Foreman, W. E. Guy, E. Pope, A. S. H. Saunders, G. A. VanEvery, W. W. Wagner, W. E. Yeates, E. Monds, W.

DEPARTMENT OF ARCHITECTURE.**Honors.**

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Shepherd, W. F.		

CERTIFICATE IN MINERALOGY AND ASSAYING.

Primary Examination.

D. A. Ross, B.A., F. C. Swannell.

DEGREE OF B.A. Sc.

HONORS :

Williamson, D. A.

PASS :

Boyd, W. H.

Carter, W. E. H.

Grant, W. F.

Kormann, J. S.

Shipley, A. E.

PRIZEMEN.

FIRST YEAR.—Architecture.

W. F. Shepherd.

THIRD YEAR.—Civil Engineering.

T. Shanks.

The prize in Architecture is the gift of Mr. D. B. Dick, Architect, Toronto.

The prize in Civil Engineering is the gift of T. Kennard Thomson, C. E., New York.

I YEAR.

DRAWING.	FIELD NOTES.	EXPERIMENTAL PHYSICS.
Twiss. Rigsby. { Duff. { Shepherd. Fuller. Eason. Brereton. Forbes. { Chace. { Henry. { Rust. Zahn. Knight. Bennett. { Batt. { Gibson. McVean. Bowers. Cockburn. Bertram. Harvey. { Broughton. { Mennie. { Beatty, F. R. { Mace. Sutherland. McMillan. Jackson. Fotheringham. Hamer. Bolger. Sauer. Benson. Brandon. MacLennan. Sill. Christie. George. Stevenson. McCollum.	{ Barrett. { Henry. Duff. MacLennan. { Knight. { Rust. { Twiss. Forbes. Fuller. Harvey. McMillan. Jackson. Shepherd. Eason. Sill. Bolger. Hamer.	Chace. Batt. { Broughton. { McVean. { Stevenson. { Fotheringham. { Christie. { Mennie. { Brereton. { Cockburn. { Beatty, T. R. { Zahn. { Sauer. { Gibson. { Sutherland. Bowers. { McCallum. McMaster. { Beatty, W. G. { Brandon. George. Benson. { Laidlaw { Rigsby.

I YEAR.

PRACTICAL CHEMISTRY.	PRACTICAL ELECTRICITY	ALGEBRA
{ McVean. { Jackson. { Shepherd. { Bowers. { Fotheringham. { Laidlaw. { Forbes. Bertram. Henry. Harvey. Mace. Fuller. Beatty, F. R. Barrett. Brandon. Knight. McMaster. Eason. { Rigsby. { Broughton. George. Hamer. Benson. Chace. Bolger. Brereton. { McCollum. { Stevenson. { Cockburn. { Gibson. { Sauer. { Batt. { Duff. { McMillan. { MacLennan. { Mennie. { Sutherland. { Christie. Twiss. Beatty, W. G. Zahn.	Batt. Beatty, F. R. McVean. Fotheringham. Brereton. Gibson. Mace. Benson. Laidlaw. Bowers. Chace. McMaster. Sutherland. Sauer. Stevenson. Christie. McCollum. Brandon. Bertram. George. Rigsby. Broughton. Zahn. Cockburn. Mennie. Beatty, W. G.	McVean. Chace. Sill. Christie. Sutherland. Barrett. Eason. Laidlaw. Rust. McCollum. Sauer. Jackson. Brereton. Forbes. Cockburn. MacLennan. Brandon. McMillan. Bertram. Beatty, F. R. Duff. Fuller. Broughton. Harvey. Twiss. Zahn. Beatty, W. G. Stevenson. Hamer. Henry. Mace. Batt. Knight. Bowers. Bolger. Mennie. Rigsby. Fotheringham. George. Gibson.

I. YEAR.

EUCLID.	TRIGONOMETRY.	ANALYTICAL GEOMETRY.
Chace. McVean. Barrett. Rust. Eason. Duff. Laidlaw. Christie. Cockburn. Bertram. Forbes. Brandon. Knight. Hamer. MacLennan. Zahn. Sauer. Beatty, W. G. Twiss. Brereton. McCollum. Harvey. Jackson. Broughton. Mennie. Beatty, F. R. Henry. Sutherland. Bolger. Fuller. George. Rigsby. Gibson. Mace. Sill. Fotheringham. McMillan. Stevenson. Batt.	Chace. McVean. { Christie. { Duff. { Rust. { Laidlaw. { Cockburn. { Sauer. { Bertram. { Jackson. { Barret. { Brereton. { Eason. { McCollum. { McLennan. { Sutherland. { Hamer. { Brandon. { Fuller. { Henry. { Broughton. { Forbes. { Fotheringham. { Zhan. { Sill. { Harvey. { George. { Bowers. { Twiss. { Batt. { Gibson. { McMillan. { Bolger. { Mennie. { Beatty, W. G. { Beatty, F. R. { Knight. { Mace. { Rigsby. { Stevenson.	Chace. Eason. Rust. Shepherd. Duff. Jackson. Barrett. Bertram. McVean. McCollum. Hamer. Broughton. Brandon. McMillan. Cockburn. Twiss. Brereton. Fuller. Forbes. McMaster. Bowers. Zhan. Knight. Christie. Sauer. Sill. Harvey. Mace. Fotheringham. Sutherland. Mennie. Beatty, W. G. Bolger. Benson. Gibson. George. Stevenson. Beatty, F. R.

I. YEAR.

ELEMENTARY CHEMISTRY.	DESCRIPTIVE GEOMETRY.	STATICS.
Eason. Rust. Forbes. { Chace. { Fotheringham. Bertram. { Barrett. { McMillan. { Christie. { McVean. { Duff. { Cockburn. Broughton. Sill. { Shepherd. { Brereton. Stevenson. McCollum. Sutherland. Gibson. { Sauer. { Twiss. { Hamer. { Laidlaw. Mennie. { Bowers. { Fuller. George. Benson. Beatty, F. R. { Harvey. { Brandon. { Batt. Beatty, W. G. Zhan. { Jackson. { Bolger. { Henry. { McMaster. Knight. Rigsby. MacLennan.	Chace. McVean. Duff. Jackson. Brereton. McCollum. Sauer. Laidlaw. { Brandon. { Zhan. { Bertram. { Shepherd. { Barrett. { Eason. { Henry. { Twiss. Rust. Fuller. Sutherland. Cockburn. { Forbes. { McMillan. MacLennan. { Christie. { Fotheringham. Bowers. { Broughton. { Knight. Hamer. { Batt. { Beatty, W. G. Mace. { Gibson. { Rigsby. Bolger. { Harvey. { Mennie. { Stevenson.	Chace. Sutherland. McVean. Eason. Bertram. Cockburn. Rust. Sauer. Brandon. Brereton. McCollum. Duff. Forbes. Jackson. Beatty, W. G. Fuller. Shepherd. Broughton. Laidlaw. Henry. Barrett. Zhan. Rigsby. Twiss. Hamer. Gibson. Sill. MacLennan. Mace. Bowers.

I. YEAR.

DYNAMICS.	SURVEYING.	ELECTRICITY AND MAGNETISM.
Chace.	Chace.	Chace.
McVean.	Eason.	Batt.
Rust.	Sutherland.	Benson.
Sauer.	Christie.	Brereton.
Cockburn.	Jackson.	Christie.
Shepherd.	Rust.	Laidlaw.
Barrett.	Beatty, F. R.	McVean.
Eason.	{ Hamer.	Cockburn.
McCollum.	{ McVean.	Brandon.
{ Henry.	Mace.	Broughton.
{ Beatty, W. G.	Duff.	Fotheringham.
{ Jackson.	Laidlaw.	Rigsby.
{ Bertram.	Bowers.	Gibson.
{ Sutherland.	{ Benson.	{ Sutherland.
Hamer.	{ Fuller.	{ George.
MacLennan.	{ Shepherd.	{ Sauer.
{ Bowers.	{ Brandon.	{ Bertram.
{ Forbes.	{ George.	Stevenson.
Christie.	{ McMillan.	Mace.
George.	{ Barrett.	McCollum.
{ Brereton.	{ Cockburn.	McMaster.
{ Laidlaw.	{ Harvey.	Beatty, W. G.
{ Twiss.	McCollum.	Mennie.
{ Harvey.	{ Knight.	Beatty, F. R.
{ Zahn.	{ Twiss.	Bowers.
Fuller.	{ Forbes.	
Batt.	{ McMaster.	
Duff.	{ Sill.	
Fotheringham.	Brereton.	
McMaster.	{ Bolger.	
	{ Stevenson.	
	{ Bertram.	
	{ Henry.	
	{ Sauer.	
	Broughton.	
	Batt.	
	Rigsby.	
	Mennie.	

I. YEAR.

ELECTRICITY.	HEAT.	ARCHITECTURAL SKETCHES.
Chace. Laidlaw. McVean. { Sauer. McCollum. Batt. Cockburn. Beatty, W. G. Sutherland. McMaster Rigsby. Bertram. Brandon. Bowers. { Christie. { Mace. { Broughton. { Mennie. { Brereton. { Gibson. Stevenson. Fotheringham. George. Benson. Beatty, F. R. Zahn.	Chace { Cockburn. { Forbes. Brereton. { Eason. { McVean. { Barrett. Brandon. { Duff. Gibson. { Rust. { Batt. { Broughton. { Christie. Fotheringham. { Jackson. { Sauer. { MacLennan. { Stevenson. { Benson. { Knight. { Sutherland. { Harvey. { Laidlaw. { Sill. Twiss. { Fuller. { McCollum. { George. { Henry, { Beatty, W. G. { Hamer. { Bowers. { McMaster. { Beatty, F. R. { Bertram. { Zahn. Shepherd. { Mennie. { Rigsby. McMillan. Mace. Bolger.	Shepherd.
		HISTORY OF ARCHITECTURE.
		Shepherd.

II. YEAR.

DRAWING.	THESIS CIVIL ENGINEERING.	THESIS. MECHANICAL AND ELECTRICAL ENGINEERING.
Tennant. Clark, J. { Davison. { Phillips. { Dickson. { Dixon. { McArthur. McMillan. Henry. Power. Barley. Roaf. { Johnston, H. A. { Johnston, J. A. Guest. Dickinson. Saunders. Miller. Johnston, J. C. { Clark, F. F. { Lumbers. Thorn. { Fullerton. { Henderson. { Ardagh. { Thorold. Weir. Boswell. Neelands Holcroft.	Tennant. Phillips. Davison. { Clarke, F. F. { Thorold. { Weir. { Power.	Henderson. Henry Clark, J. Lumbers. Barley. Dickinson. Dickson, G. W. Johnston, H. A. Withrow. Johnston, J. C. Miller. Guest.

II. YEAR.

MINING ENGINEERING. THESIS.	CONSTRUCTION NOTES.	FIELD NOTES.
Boswell. Roaf. Holcroft. Fullerton. Thorne. McMillan. Saunders. McArthur.	Tennant. Saunders. Davison. Henderson. Power. Guest. { Henry. { Thorold. { Dickson, G. W. { Boswell. { Lumbers. { Johnston, J. A. { McArthur. Phillips. Dickinson. Clark, J. Barley. { Fullerton. { Johnston, H. A. { Holcroft. { Thorne. Roaf. Withrow. { Ardagh. { Clarke, F. F. { McMillan. Miller.	{ Davison. { Tennant. { Dixon. { Power. Phillips. Clark. Thorne. { Johnston, J. A. { McMillan. { Thorold. Weir. { Ardagh. { Roaf. { Boswell. { McArthur. { Saunders. Fullerton.

II. YEAR.

EXPERIMENTAL PHYSICS, CIVIL AND MINING ENGINEERING.	MECHANICAL AND ELEC- TRICAL ENGINEERING, EXPERIMENTAL PHYSICS.	PRACTICAL ELEC- TRICITY.
{ Tennant. { Davison. Saunders. Fullerton. { Boswell. { Johnston, J. A. { Roaf. { Clark, F. F. { Thorold. { Neelands. { Phillips. { Weir. Thorne. Power. McArthur. McMillan. Holcroft. Dixon. Ardagh.	Barley. Clark, J. Dickinson. Dickson. Guest. Henderson. Henry. Johnston, H. A. Johnston, J. C. Lumbers. Miller. Withrow.	Clark, J. Barley. { Dickson. Guest. { Henry. Lumbers. { Henderson. Johnston, H. A. { Miller. Dickinson. Johnston, J. C. Withrow.

II. YEAR.

PRACTICAL CHEMISTRY.	PRACTICAL MINERALOGY.	PRACTICAL LITHOLOGY.
Boswell. { Dixon. Johnston, J. C. Miller. { Thorne. Power. Phillips. Henderson. Barley. Thorold. { Ardagh. { Clark, J. { Clark, F. F. { Guest. McArthur. { Johnston, J. A. { Saunders. Davison. { Dickson. { Fullerton. { Weir. Lumbers. { Neelands. { Roaf. { Withrow. Tennant. Dickinson. Holcroft. { Henry. { Johnston, H. A. McMillan.	{ Ardagh. { Saunders. { Davison. { Fullerton. { Johnston, J. A. { Roaf. { Boswell. { Neelands. Phillips. Thorne. { McMillan. { Tennant. { Thorold. { Weir. McArthur. { Clarke. { Holcroft. Dixon. Power.	Davison. { Neelands. { Thorne. { Ardagh. { Roaf. McArthur. Johnston. { Dixon. { Fullerton. { Holcroft. { McMillan. { Saunders. Boswell.

II YEAR.

APPLIED CHEMISTRY.	CALCULUS.	HYDROSTATICS.
Boswell. Henderson. { Fullerton. { Roaf. { Dickinson. { Guest. { Lumbers. { Phillips. { Clark, J. { Henry. { Saunders. { Miller. { Johnston, H. A. { Dixon. { Withrow. { Ardagh. { Thorne. { Davison. { McArthur. { Tennant. { Thorold. { Barley. { Dickson. { Johnston, J. A. { Weir. { Power. { Clark, F. F. { Holcroft. { Johnston, J. C. { McMillan. { Neelands.	Boswell. Henderson. { Clark, J. { Fullerton. { Johnsten, J. A. { McMillan. { Thorne. { McArthur. { Roaf. { Weir. { Guest. { Lumbers. { Neelands. { Dixon. { Miller. { Clarke, F. F. { Phillips. { Power. { Tennant. { Davison. { Saunders. { Barley. { Dickson. { Johnston, J. C. { Dickinson. { Withrow. { Holcroft. { Johnston, H. A. { Henry. { Ardagh.	Clark, J. Miller. Henderson. Johnston, J. A. Henry. Dickson. { Dixon. { Davison. { Boswell. { Guest. { Fullerton. { Dickinson. { Lumbers. { Weir. { Roaf. { McArthur. { Johnston, H. A. { McMillan. { Withrow. { Phillips. { Thorne. { Johnston, J. C. { Ardagh. { Clark, F. F. { Neelands. { Barley. { Power. { Saunders. { Thorold. { Tennant. { Holcroft.

II YEAR.

OPTICS.	STRENGTH OF MATERIALS.	RIGID DYNAMICS.
Henderson. Johnston, J. A. Clark, J. Johnston, H. A. { Dickinson. { Miller. Phillips. { McArthur. { McMillan. { Withrow. { Boswell. { Dickson. { Henry. { Lumbers. { Johnston, J. C. { Tennant. Fullerton. Guest. Ardagh. Weir. Saunders. Barley. { Neelands. { Roaf. Dixon. Thorne. Clark, F. F. Holcroft. Thorold. Davison.	Boswell. Clark, J. Guest. Phillips. Miller. Henderson. { Weir. { Dixon. Fullerton. Henry. { Dickinson. { Johnston. Roaf. { Thorne. { McMillan. { Neelands. { Davison. { Tennant. Saunders. Thorold. Power.	Boswell. Johnston, J. A. Henders. Saunders. Phillips. Clark, J. { Fullerton. { Roaf. Thorne. Dixon. Davidson. Guest. { Henry. Lumbers. { McMillan. { Tennant. { Weir. McArthur. { Barley. { Johnston, H. A. Dickinson. Withrow. { Ardagh. { Holcroft. { Johnston, J. C. { Miller. Dickson. Thorold. Clarke, F. F. Neelands.

II YEAR.

DESCRIPTIVE GEOMETRY.	SPHERICAL TRIGONOMETRY.	SURVEYING.
Johnston, J. A. Boswell. { Fullerton. { Weir. Thorne. { Guest. { McArthur. { Roaf. Davison. Phillips. Clarke, F. F. Tennant. Ardagh. Thorold. McMillan. Power. { Dixon. { Johnston, H. A. { Neelands. Henderson. { Clark, J. { Johnston. Lumbers. Miller. { Dickson. { Withrow.	Boswell. Clark, J. Weir. Henderson. Miller. McArthur. { Barley. { Dickson. { Dixon. Davison. Phillips { Tennant { Thorold. { Fullerton { Power. { Thorne. { Withrow. Neelands. Roaf. Clarke, F. F. Johnston, J. C. Guest. { Ardagh. { Johnston, H. A. Saunders. Johnston, J. A. Holcroft. { Lumbers. { McMillan. { Dickinson. { Henry.	Dixon. Weir. Phillips. Boswell. Saunders. Johnston, J. A. Davison. McArthur. Fullerton. Thorne. Tennant. { Ardagh. { Thorold, { McMillan. { Neelands. Roaf. Power. Holcroft. Clarke, F. F.

II YEAR

ASTRONOMY.	METALLURGY.	MINERALOGY AND GEOLOGY.
Weir. Tennant. { Phillips. { Power. Thorold.	Boswell. Clark, J. Roaf. Johnston, J. A. McArthur. Henry, J. A. { Phillips. { Neelands. Johnston, H. A. { Weir. { Fullerton. { Dickinson. { Ardagh. { Guest. { Thorn. { Miller. Dixon. Davison. Tennant. Henderson. McMillan. Saunders. Lumbers. Holcroft. Thorold. Clarke, F. F. Barley. Withrow. Power. Johnston, J.C. Dickson.	Davison. Johnson, J. A. Fullerton. McMillan. { Ardagh. { Boswell. Thorne. Weir. Phillips. Holcroft. { Dixon. { Neelands. Saunders. Thorold. Roaf. McArthur. Tennant. Power. Clarke, F. F.

II YEAR.

LITHOLOGY.	ELECTRICITY.	THEORY OF MECHANISM.
McMillan. Boswell. Johnston, J. A. Roaf. Ardagh. Fullerton. Davison. Dixon. Holcroft. Saunders. Neelands. McArthur. Thorne.	Clark, J. Guest. } Miller. } Henderson. Johnston, H. A. Withrow. Barley. Dickinson. Henry. Johnston, J. C. Lumbers. Dickson.	Clark, J. Guest. Miller. Johnston, H. A. Henderson. Lumbers. Dickinson. Henry. Withrow. Barley. Johnston, J. C. Dickson.

III YEAR.

DRAWING.	• THESIS. CIVIL ENGINEERING.	THESIS. MINING ENGINEERING.
Van Every. Tennant. Shanks. Hare. Chubbuck. Monds. Latham. Barber. Pope. Saunders. Wagner. Clothier. Yeates. Revell. Burnside. Richards. Watt. Craig. Foreman. Cooper. Guy. Coul hard.	Tenant. Shanks. Cooper. Latham.	Revell. Watt. } Burnside. } Clothier. Coulthard.

III YEAR.

THESIS. MECHANICAL AND ELECTRICAL ENGINEERING.	CONSTRUCTION NOTES.	FIELD NOTES
Barber. Hare. Van Every. Chubbuck. Monds. Richards. Craig. Yeates. Saunders. Pope. Wagner. Foreman. Guy.	Van Every. Hare. { Shanks. { Tennant. Chubbuck. Yeates. { Cooper. { Saunders. Watt. { Monds. { Pope. Revell. Wagner. Richards. { Craig. { Guy. Latham. Coulthard. Foreman. Burnside. Barber. Clothier.	Shanks. { Burnside. { Tennant. Latham. { Clothier. { Watt. Coulthard. Cooper. Revell.

III. YEAR.

EXPERIMENTAL PHYSICS CIVIL ENGINEERING.	EXPERIMENTAL PHYSICS MECHANICAL AND ELECTRICAL ENGINEERING.	PRACTICAL MINERALOGY.
Shanks. Tenant. Cooper. Latham.	Craig. Chubbuck. Wagner. Monds. Foreman. Saunders. Barber. Pope. Van Every. Yeates. Hare. Richards. Guy.	Latham. { Shanks. Tenant. Watt. { Clothier. Revell. Cooper. Coulthard. Burnside.
PRACTICAL ELECTRICITY.	PRACTICAL CHEMISTRY.	ASSAYING.
Hare. Chubbuck. Van Every. Richards. Barber. Monds. Yeates. Pope. Saunders. Guy. Wagner. Craig. Foreman.	{ Clothier. Watt. Revell. { Burnside. Coulthard.	{ Clothier. Watt. Revell. Burnside. Coulthard.

III. YEAR.

APPLIED CHEMISTRY.	DESCRIPTIVE GEOMETRY.	THERMODYNAMICS.
Barber. { Revell. { Richards. Coulthard. { Pope. { Saunders. { Yeates. Burnside. { Chubbuck. { Guy. { Wagner. { Cooper. Craig. Foreman. { Hare. { Latham. Monds. { Shanks. Clothier. Van Every.	Revell. Hare. Tennant. Chubbuck. Watt. { Shanks. { Yeates. Richards. { Barber. { Pope. Foreman. Clothier. Coulthard. Saunders. Monds. Latham. Wagner. Craig. Burnside. Van Every. Guy. Cooper.	Shanks. Barber. Richards. Monds. Wagner. Tennant. { Craig. { Saunders. Revell. Clothier. Coulthard. Chubbuck. { Hare. { Watt. Pope. { Van Every. { Latham. Guy. Yeates. Cooper. Foreman. Burnside.

III. YEAR.

HYDRAULICS.	THEORY OF CONSTRUCTION.	COMPOUND STRESS.
Shanks. Barber. { Craig. { Tennant. Richards. { Hare. { Foreman. Monds. Revell. { Latham. { Yeates. Chubbuck. Clothier. Coulthard. Saunders. Wagner. Guy. { Burnside. { Cooper. { Van Every. Watt. Pope.	Shanks. Tennant. { Barber. { Hare { Guy. { Yeates. Revell. Wagner. Burnside. Richards. Monds. Saunders. Van Every. Latham. Craig. Chubbuck. Foreman. Cooper. Clothier. Pope. Coulthard. Watt.	{ Barber. { Tennant. Shanks. Richards. Pope. { Hare. { Saunders. Latham. Monds. Craig. Yeates. Chubbuck. Cooper. Foreman. Guy. Wagner. Van Every.

III. YEAR.

METHOD OF LEAST SQUARES.	PRACTICAL ASTRONOMY AND GEODESY.	SURVEYING AND LEVELLING.
Monds. Shanks. Tennant. Latham. { Barber. { Hare. Chubbuck. Richards. Saunders. Craig. { Pope. { Yeates. Wagner. Foreman. Guy. Cooper. Van Every.	Shanks. Latham. { Cooper. { Tennant.	Shanks. Revell. Tennant. Watt. Cloutier. Coulthard. { Burnside. { Latham. Cooper.

ELECTRICITY.	CONSTRUCTIVE DESIGN.	MACHINE DESIGN.
Richards. Hare. Chubbuck. Van Every. Barber. Monds. Yeates. Craig. Wagner. Guy. Pope. Saunders. Foreman.	Shanks. Cooper. Tennant. Latham.	Yeates. Barber. Richards. Hare. Guy. Saunders. Pope. Craig. Chubbuck. Van Every. Monds. Wagner. Foreman.

III YEAR.

MECHANICS OF MACHINERY.	METALLURGY.	MINERALOGY AND GEOLOGY.
Hare. Barber. Chubbuck. Richards. Monds. Van Every. Saunders. Wagner. Yeates. Craig. Foreman. Guy. Pope.	Revell. Barber. Clothier. Coulthard. Yeates. Watt. Richards. { Craig. { Chubbuck. Burnside. Wagner. Pope. Monds. { Foreman. { Hare. Saunders. Guy. VanEvery.	Tennant. Coulthard. Revell. Clothier. Watt. Burnside. { Cooper. { Shanks. Latham.
MINING AND ORE DRESSING.	ORE DEPOSITS.	
Revell. Clothier. { Coulthard. { Watt. Burnside.	Revell. Watt. Clothier. Coulthard. Burnside.	

PRIMARY EXAMINATION FOR CERTIFICATE.

DRAWING.	FIELD NOTES.	PRACTICAL MINERALOGY.
Ross.	Ross. Swannell.	Swannell. Ross.
PRACTICAL LITHOLOGY.	PRACTICAL CHEMISTRY.	METALLURGY.
Ross. Swannell.	Ross. Swannell.	Ross. Swannell.
ASSAYING.	MINERALOGY AND GEOLOGY.	DESCRIPTIVE GEOMETRY.
Ross. Swannell.	Ross. Swannell.	Ross.
SURVEYING.	TRIGONOMETRY.	LITHOLOGY.
Ross.	Swannell.	Ross. Swannell.
ELEMENTARY CHEMISTRY.	APPLIED CHEMISTRY.	
Ross.	Ross. Swannell.	

FOURTH OR POST-GRADUATE YEAR.
DEGREE OF BACHELOR OF APPLIED SCIENCE (B.A. Sc.)
University of Toronto.

SCHOOL OF PRACTICAL SCIENCE CERTIFICATE.	THERMODYNAMICS AND THEORY OF HEAT ENGINES.	HYDRAULICS AND WATER WHEELS.
<i>Honors.</i> Williamson.	<i>Honors.</i> Williamson.	<i>Honors.</i> Williamson.
<i>Pass.</i> Boyd. Carter. Grant. Kormann. Shipley.	<i>Pass.</i> Shipley.	<i>Pass.</i> Grant. Kormann. Shipley.
STRENGTH AND PROPERTY OF MATERIALS.	METALLURGY AND ASSAYING.	THESIS.
<i>Honors.</i> Grant.	<i>Honors.</i> Carter.	<i>Honors.</i> Boyd. Shipley. Williamson.
<i>Pass.</i> Kormann.	<i>Pass.</i> Boyd.	<i>Pass.</i>
MINERALOGY AND GEOLOGY.		Carter. Grant. Kormann.
<i>Pass.</i> Boyd. Carter.		

SUPPLEMENTAL EXAMINATIONS PASSED.

First Year Subjects.

Algebra.—Clarke, N.

Plane Trigonometry.—Cooper, Hunt, Dickson.

Dynamics.—Clarke, F. F., Thorne, Middleton, Barley, Monds.

Descriptive Geometry.—Davison, J. E., Morrison, Saunders, Smith, Johnston, J. C., Johnston, H. A.

Analytical Geometry.—Dickinson, Saunders.

Statics.—Phillips, Holcroft, Mackenzie, Morrison, Roaf, Thorne, Johnston, J. C., Johnston, H. A., Lumbers, Middleton, Neelands, Barley.

Surveying.—Clarke, N., Price, Thorold.

Electricity and Magnetism.—Dickinson, Clendenning.

Second Year Subjects.

Thesis.—Clothier.

Construction Notes.—Clothier, Foreman, Rounthwaite.

Calculus.—Cooper, Hemphill, Rounthwaite.

Metallurgy.—Burnside.

Mineralogy and Geology.—Allan.

Strength of Materials.—Coulthard, Elliott, Pope.

Spherical Trigonometry.—Hall.

Surveying.—Burnside, Colthard.

Descriptive Geometry.—Wagner.

SUPPLEMENTAL EXAMINATIONS TO BE TAKEN.

First Year Subjects.

Statics.—Batt, Benson, Christie, Fotheringham, George, McMaster, Mennie, Stevenson, Beatty, F. R., Harvey, McMillan, G., Bolger, Knight, Carmichael, Cooper, C. E., Smith, Finch.

Descriptive Geometry.—George, McMaster, Sill, Hunt, G. A., Carmichael.

Electricity and Magnetism.—Davidson, W. S., Zahn.

Dynamics.—Beatty, F. R., Benson, Brandon, Broughton, Gibson, Mace, Mennie, Rigsby, Stevenson, Bolger, Knight, Sill, McMillan, G., Burd.

Surveying.—Davidson, W. S., MacLennan, Beatty, W. G., Fotheringham, Gibson, Zahn.

Analytical Geometry.—MacLennan, Batt, Henry, J. S., Rigsby.

Elementary Chemistry.—Price, Mace.

Drawing.—McCollum.

Second Year Subjects.

Drawing.—Withrow, Swannell.

Construction Notes.—Weir, Dixon, H. A., Neelands, Johnston, H. A., Willson.

Thesis.—Ardagh, Dixon, H. A., Johnston, J. A., Neelands.

Calculus.—Thorold, Hall.

Astronomy.—Clarke, F. F.

Strength of Materials.—Clarke, F. F., Ardagh, Holcroft, Matheson, Mackenzie, McArthur, McMichael, Barley, Dickson, G. W., Johnston, H. A., Johnston, J. C., Lumbers, Withrow, Hemphill, Willson.

Descriptive Geometry.—Holcroft, Saunders, H. W., Barley, Dickinson, Henry, J. A.

Surveying.—Mattheson, McMichael, Swannell.

Mineralogy and Geology.—Mackenzie.

Metallurgy.—Dickson, G. W., Johnston, J. C.

Applied Chemistry.—Bray.

Rigid Dynamics.—Power.

Optics.—Power.

